

REMARKS

Applicant respectfully requests reconsideration of the present application in view of the foregoing amendments and in view of the reasons that follow.

Status of Claims:

No claims are currently being added or cancelled.

Claims 1, 4, 16, 17, 20, 23, 29 and 32 are currently being amended.

This amendment amends claims in this application. A detailed listing of all claims that are, or were, in the application, irrespective of whether the claims remain under examination in the application, is presented, with an appropriate defined status identifier.

After amending the claims as set forth above, claims 1-34 are pending in this application.

Specification Amendment:

The specification has been amended to provide proper antecedent basis for the "information altering unit." Figure 1 has also been amended. Contrary to the statement made on page 2 of the Office Action, the information altering unit is not the adding conditions/adding/range/protection key storage section 30 shown in Figure 1 of the drawings, but rather it is a unit that provides altering information to the storage section 30. See, for example, pages 29 and 30 of the specification, which state that the adding conditions, adding range, and protection key stored in the storage section 30 are able to be rewritten from the outside, whereby this rewriting potentiality itself is the function of the information altering unit.

Claim Objections:

In the Office Action, claims 4, 20, 23, 29 and 32 were objected to because of informalities noted on page 2 of the Office Action. By way of this amendment and reply, claims 4, 20, 23, 29 and 32 have been amended to overcome the objections to these claims.

Claim Rejections – 35 U.S.C. § 112, 2nd Paragraph:

In the Office Action, claims 1-3 and 17-19 were rejected under 35 U.S.C. § 112, second paragraph, as being indefinite, for the reasons set forth on page 3 of the Office Action. By way of this amendment and reply, "continuous" has been removed from claims 1 and 17

(so that they now recite “predetermined pattern” instead of “predetermined continuous pattern”), thereby overcoming the indefiniteness rejection of claims 1-3 and 17-19.

Claim Rejections – Prior Art:

In the Office Action, claims 1-34 were rejected under 35 U.S.C. § 102(b) as being anticipated by U.S. Patent No. 5,987,137 to Karppanen. This rejection is traversed with respect to presently pending claims 1-34, for at least the reasons given below.

The Office Action incorrectly asserts that the calculation unit as recited in claim 1 is disclosed by Karppanen. In particular, Karppanen does not disclose or suggest a calculation unit that adds predetermined calculation values to or subtracts predetermined calculation values from either all of or a portion of a predetermined number of items of digital data that are continuous after digital data that is determined as a result of the determination by the determination unit to form numerical values having a predetermined pattern.

In other words, Karppanen does not disclose or suggest features as described on pages 36 to 39 of the specification with reference to Figures 3 and 4.

Accordingly, claim 1, as well as its dependent claims 2 and 3, are not anticipated by Karppanen. Presently pending independent claim 17 recites features similar to those discussed above with respect to claim 1, and thus claims 17-19 (claims 18 and 19 depend from claim 17) are also not anticipated by Karppanen.

With respect to presently pending independent claim 4, that claim recites a holding unit which temporarily holds binary data input serially as byte data of a byte unit; a calculation unit which adds predetermined calculation values to or subtracts predetermined calculation values from either all of or a portion of a predetermined number of items of byte data that are continuous after byte data that is determined as a result of the determination by the determination unit to form the predetermined byte code; and an output unit which serially outputs byte data calculated by the calculation unit as data of a bit unit.

Karppanen does not disclose or suggest any of the feature of claim 4 provided above.

Accordingly, claim 4, as well as its dependent claims 5 and 6, are not anticipated by Karppanen.

Presently pending independent claims 20, 23, 29 and 32 have been amended in a manner similar to the amendments made to claim 4, and thus claims 20-32 are also not

anticipated by Karppanen. Furthermore, these claims recite a calculation unit similar to the calculation unit recited in claim 1, and these claims are patentable for this additional reason.

Lastly, independent claims 7, 10 and 13 each recites first and second calculation units that include features similar to those discussed above with respect to the calculation unit of claim 1, and thus claims 7-16 are not anticipated by Karppanen for at least the reasons given above with respect to claim 1.

Conclusion:

Since all of the issues raised in the Office Action have been addressed in this Amendment and Reply, Applicant believes that the present application is now in condition for allowance, and an early indication of allowance is respectfully requested.

The Examiner is invited to contact the undersigned by telephone if it is felt that a telephone interview would advance the prosecution of the present application.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 C.F.R. §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 19-0741. Should no proper payment be enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 19-0741. If any extensions of time are needed for timely acceptance of papers submitted herewith, Applicant hereby petitions for such extension under 37 C.F.R. §1.136 and authorizes payment of any such extensions fees to Deposit Account No. 19-0741.

Respectfully submitted,

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Amendments to the Drawings:

Amendments to the drawings are provided by way of a replacement drawing sheet and a marked up sheet showing the changes made in red. In particular, Figure 1 has been amended to include an "Information Altering Unit" label.



FIG.1

